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QUALITY SYSTEM FORMAT						
GRADATION TEST FOR GRANULAR SUB BASE (GSB-V)						
Name of Client	BBMP					
Name of Agency	Sri J. GIRISH					
Project Name	Improvements to Roads and Drains at Basavalingappa Badavane and Rajiv Gandhinagara and Chikkabettahalli in Ward No-03 of Yelahanka Satellite Town Sub Division.					
Technical Reference	MORT&H Specifications for Roads and Bridge Works, Vth Revision					
Date of Testing	07.07.2021					
Testing on	GSB -V					
Gradation of GSB, Grade-V (Trial 2)						
Weight of sample (gms):	5000					
Sl. No.	Sieve Size, as per MORT&H	Weight Retained (gms)	Cumulative weight Retained	% weight Retained	% Passing	Standard Gradation as per MORT&H 5th Revision
1	75.0 mm	0	0	0	100	100
2	53.0mm	0	0	10	90	80-100
3	26.50 mm	0	0	26	74	55-90
4	9.50 mm	0	0	50	50	35-65
5	4.75 mm	0	0	60.5	39.5	25-50
6	2.36 mm	0	0	83.8	16.2	10--20
7	0.85mm	0	0	91.8	8.2	2--10
8	0.425 mm	0	0	97.6	2.4	0-5
Consultant: Transheight Consultants Pvt. Ltd.				Client : BBMP		
Transheight Consultants Pvt. Ltd. Bangalore Authorised Signatory				Authorised Signatory		

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1. Test on Aggregate Gradation – GSB V

QUALITY SYSTEM FORMAT

GRADATION TEST FOR GRANULAR SUB-BASE (GSB-V)

Name of Client	BBMP
Name of Agency	Sri J. GIRISH
Project Name	Improvements to Roads and Drains at Basavalingappa Badavane and Rajiv Gandhinagara and Chikkabettahalli in Ward No-03 of Yelahanka Satellite Town Sub Division.
Technical Reference	MORT&H Specifications for Roads and Bridge Works, Vth Revision
Date of Testing	07.07.2021
Testing on	GSB -V

Gradation of GSB, Grade-V (Trial 1)

Weight of sample (gms):		5000				
Sl. No.	Sieve Size, as per MORT&H	Weight Retained (gms)	Cumulative weight Retained	% Weight Retained	% Passing	Standard Gradation as per MORT&H 5th Revision
1	75 0 mm	0	0	0	100	100
2	53.0mm	500	500	10	90	80-100
3	26 50 mm	875	1375	27.5	72.5	55-90
4	9 50 mm	1125	2500	50	50	35-65
5	4.75 mm	625	3125	62.5	37.5	25-50
6	2.36 mm	1125	4250	85	15	10--20
7	0 85mm	450	4700	94	6	2--10
8	0.425 mm	175	4875	97.5	2.5	0-5

Consultant: Transheight Consultants Pvt. Ltd.

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Client: BBMP

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2. Test on Aggregate Density – FDD

QUALITY SYSTEM FORMAT			
FIELD DENSITY BY SAND REPLACEMENT METHOD			
Name of the project:	Improvements to Roads and Drains at Basavalingappa Badavane and Rajiv Gandhinagara and Chikkabettahalli in Ward No-03 of Yelahanka Satellite Town Sub Division.		
Description of materials:	GSB-V	**Date of testing:** 08.07.2021	
Lab.MDD (gm/cc)	2.320	Lab OMC(%)	4.5
Bulk Density of sand	1.385	Sand retained in cone (gm)=W1	848

FIELD DENSITY BY SAND REPLACEMENT METHOD			
Sl.no	**Particulars**	**S-1**	**S-2**
1	Wt of Wet GSB from hole (w2) gm:	5368.5	5368.5
2	Wt of sand + cylinder before pouring(gm) (w3)	15000.00	15000.00
3	Wt of sand+ cylinder after pouring (gm)(w4)	11010.36	11032.70
4	Wt of sand in hole (gm) (w5= w3-w4-w1)	3141.64	3119.30
5	Volume of sand in hole (V = W5/Ysand)	2268.33	2252.20
6	Bulk density (gm/cc) (Yb= W2/v)	2.367	2.384
7	Moisture meter reading (%)	4.00	4.50
8	Dry density (g/cc) Yd = Yb /(1 + w/100)	2.276	2.281
9	Degree of compaction achieved, (%) (Yd/mdd)*100)	**98.09**	**98.32**
10	Required degree of compaction, (%) ,As per MORT&H 5th specification.	**98.00**	
REMARKS: Results Found to be Satisfactory.			

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IS: 516-1959 (Method of tests for strength of Concrete C1.5)	Date: 30.05.2021

Name of Work : Improvements to Roads and Drains at Basavalingappa Badavane and Rajiv Gandhinagara and Chikkabettahalli in Ward No-03 of Yelahanka Satellite Town Sub Division.

Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Yelahanka Zone, Bengaluru.
Contractor	Sri J. GIRISH
Customer Reference	BBMP/EE/YNK.D.EPMT-05/W.O/213/2020-21 Dated:12-01-2020
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Date of Reciept	23.05.2021
Sample Type	RCC Drain-Raft
Sample Type/Size	150x150x150 mm
Sample Grade/ Age	M20/ 7 Days Compressive Strength
Date of Test	30.05.2021

Sl No.	Identification Mark	Grade of Concrete	Date of Casting	Date of Testing	Dimension of Specification	Cross sectional area	Weight of the sample	Failure Load	Compressive Strength	Average Compressive Strength
					mm	Sq.mm	kg	KN	N/mm²	N/mm²
1	RCC Drain-Raft	M20	23.05.2021	30.05.2021	150x150x150	22500	8.10	457.6	20.3	20.54
2	RCC Drain-Raft	M20	23.05.2021	30.05.2021	150x150x150	22500	8.25	467.75	20.8	
3	RCC Drain-Raft	M20	23.05.2021	30.05.2021	150x150x150	22500	8.31	460.8	20.5	

Remarks: Results found Satisfactory

Consultant: Transheight Consultants Pvt. Ltd.	Client: BBMP
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Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for strength of Concrete C1.5) | **Date: 31.05.2021**

Name of Work : Improvements to Roads and Drains at Basavalingappa Badavane and Rajiv Gandhinagara and Chikkabettahalli in Ward No-03 of Yelahanka Satellite Town Sub Division.

Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Yelahanka Zone, Bengaluru.
Contractor	Sri J. GIRISH
Customer Reference	BBMP/EE/YNK.D.EPMT-05/W.O/213/2020-21 Dated:12-01-2020
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Date of Receipt	24.05.2021
Sample Type	RCC Drain-Wall
Sample Type/Size	150x150x150 mm
Sample Grade/ Age	M20/ 7 Days Compressive Strength
Date of Test	31.05.2021

Sl No.	Identification Mark	Grade of Concrete	Date of Casting	Date of Testing	Dimension of Specification	Cross sectional area	Weight of the sample	Failure Load	Compressive Strength	Average Compressive Strength
					mm	Sq.mm	kg	KN	N/mm²	N/mm²
1	RCC Drain-Wall	M20	24.05.2021	31.05.2021	150x150x150	22500	8.4	304.65	13.5	13.66
2	RCC Drain-Wall	M20	24.05.2021	31.05.2021	150x150x150	22500	8.6	306.6	13.6	
3	RCC Drain-Wall	M20	24.05.2021	31.05.2021	150x150x150	22500	8.6	310.7	13.8	

Remarks : Results found Satisfactory

Consultant: Transheight Consultants Pvt. Ltd.	Client : BBMP
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Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for strength of Concrete C1.5) | **Date: 22.06.2021**

Name of Work : Improvements to Roads and Drains at Basavalingappa Badavane and Rajiv Gandhinagara and Chikkabettahalli in Ward No-03 of Yelahanka Satellite Town Sub Division.

Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Yelahanka Zone, Bengaluru.
Contractor	Sri J. GIRISH
Customer Reference	BBMP/EE/YNK.D.EPMT-05/W.O/213/2020-21 Dated:12-01-2020
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Date of Receipt	24.05.2021
Sample Type	RCC Drain-Wall
Sample Type/Size	150x150x150 mm
Sample Grade/ Age	M20/ 28 Days Compressive Strength
Date of Test	22.06.2021

Sl No.	Identification Mark	Grade of Concrete	Date of Casting	Date of Testing	Dimension of Specification	Cross sectional area	Weight of the sample	Failure Load	Compressive Strength	Average Compressive Strength
					mm	Sq.mm	kg	KN	N/mm²	N/mm²
1	RCC Drain-Wall	M20	24.05.2021	22.06.2021	150x150x150	22500	8.50	465.3	20.7	20.83
2	RCC Drain-Wall	M20	24.05.2021	22.06.2021	150x150x150	22500	8.65	472.6	21.0	
3	RCC Drain-Wall	M20	24.05.2021	22.06.2021	150x150x150	22500	8.71	468.5	20.8	

Remarks : Results found Satisfactory

Consultant: Transheight Consultants Pvt. Ltd.	Client : BBMP
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Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for strength of Concrete C1.5)	Date: 31.05.2021

Name of Work : Improvements to Roads and Drains at Basavalingappa Badavane and Rajiv Gandhinagara and Chikkabettahalli in Ward No-03 of Yelahanka Satellite Town Sub Division.

Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Yelahanka Zone, Bengaluru.
Contractor	Sri J. GIRISH
Customer Reference	BBMP/EE/YNK.D.EPMT-05/W.O/213/2020-21 Dated:12-01-2020
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Date of Reciept	24.05.2021
Sample Type	RCC Drain-Wall
Sample Type/Size	150x150x150 mm
Sample Grade/ Age	M20/ 7 Days Compressive Strength
Date of Test	31.05.2021

Sl No.	Identification Mark	Grade of Concrete	Date of Casting	Date of Testing	Dimension of Specification	Cross sectional area	Weight of the sample	Failure Load	Compressive Strength	Average Compressive Strength
					mm	Sq.mm	kg	KN	N/mm²	N/mm²
1	RCC Drain-Wall	M20	24.05.2021	31.05.2021	150x150x150	22500	8.3	310.56	13.8	13.66
2	RCC Drain-Wall	M20	24.05.2021	31.05.2021	150x150x150	22500	8.4	308.3	13.7	
3	RCC Drain-Wall	M20	24.05.2021	31.05.2021	150x150x150	22500	8.5	303.3	13.5	

Remarks : Results found Satisfactory

Consultant: Transheight Consultants Pvt. Ltd.	Client : BBMP
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Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for strength of Concrete C1.5) | **Date: 03.05.2021**

Name of Project: Improvements to Roads and Drains at Basavalingappa Badavane and Rajiv Gandhinagara and Chikkabettahalli in Ward No-03 of Yelahanka Satellite Town Sub Division.

Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Yelahanka Zone, Bengaluru.
Contractor	Sri J. GIRISH
Customer Reference	BBMP/EE/YNK.D.EPMT-05/W.O/213/2020-21 Dated:12-01-2020
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Date of Receipt	26.04.2021
Sample Type	C.C Road
Sample Type/Size	150x150x150 mm
Sample Grade/ Age	M30/ 7 Days Compressive Strength
Date of Test	03.05.2021

Sl No.	Identification Mark	Grade of Concrete	Date of Casting	Date of Testing	Dimension of Specification	Cross sectional area	Weight of the sample	Failure Load	Compressive Strength	Average Compressive Strength
					mm	Sq.mm	kg	KN	N/mm²	N/mm²
1	C.C Road	M30	26.04.2021	03.05.2021	150x150x150	22500	8.95	470.18	20.9	20.70
2	C.C Road	M30	26.04.2021	03.05.2021	150x150x150	22500	9.10	468.29	20.8	
3	C.C Road	M30	26.04.2021	03.05.2021	150x150x150	22500	9.16	458.46	20.4	

Remarks : Results found satisfactory

Consultant: Transheight Consultants Pvt. Ltd.	Client : BBMP
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Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for strength of Concrete C1.5)	Date: 24.05.2021

Name of Project: Improvements to Roads and Drains at Basavalingappa Badavane and Rajiv Gandhinagara and Chikkabettahalli in Ward No-03 of Yelahanka Satellite Town Sub Division.

Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Yelahanka Zone, Bengaluru.
Contractor	Sri J. GIRISH
Customer Reference	BBMP/EE/YNK.D.EPMT-05/W.O/213/2020-21 Dated:12-01-2020
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Date of Reciept	26.04.2021
Sample Type	C.C Road
Sample Type/Size	150x150x150 mm
Sample Grade/ Age	M30/ 28 Days Compressive Strength
Date of Test	24.05.2021

Sl No.	Identification Mark	Grade of Concrete	Date of Casting	Date of Testing	Dimension of Specification	Cross sectional area	Weight of the sample	Failure Load	Compressive Strength	Average Compressive Strength
					mm	Sq.mm	kg	KN	N/mm^2	N/mm^2
1	C.C Road	M30	26.04.2021	24.05.2021	150x150x150	22500	8.95	671.59	29.8	30.05
2	C.C Road	M30	26.04.2021	24.05.2021	150x150x150	22500	9.10	675.23	30.0	
3	C.C Road	M30	26.04.2021	24.05.2021	150x150x150	22500	9.16	681.46	30.3	

Remarks : Results found satisfactory

Consultant: Transheight Consultants Pvt. Ltd.	Client : BBMP
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Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for strength of Concrete C1.5)	Date: 06.05.2021
Name of Project: Improvements to Roads and Drains at Basavalingappa Badavane and Rajiv Gandhinagara and Chikkabettahalli in Ward No-03 of Yelahanka Satellite Town Sub Division.	
Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Yelahanka Zone, Bengaluru.
Contractor	Sri J. GIRISH
Customer Reference	BBMP/EE/YNK.D.EPMT-05/W.O/213/2020-21 Dated:12-01-2020
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Date of Receipt	29.04.2021
Sample Type	C.C Road
Sample Type/Size	150x150x150 mm
Sample Grade/ Age	M30/ 7 Days Compressive Strength
Date of Test	06.05.2021

Sl No.	Identification Mark	Grade of Concrete	Date of Casting	Date of Testing	Dimension of Specification	Cross sectional area	Weight of the sample	Failure Load	Compressive Strength	Average Compressive Strength
					mm	Sq.mm	kg	KN	N/mm²	N/mm²
1	C.C Road	M30	29.04.2021	06.05.2021	150x150x150	22500	8.95	470.18	20.9	20.70
2	C.C Road	M30	29.04.2021	06.05.2021	150x150x150	22500	9.10	468.29	20.8	
3	C.C Road	M30	29.04.2021	06.05.2021	150x150x150	22500	9.16	458.46	20.4	

Remarks : Results found satisfactory

Consultant: Transheight Consultants Pvt. Ltd.	Client : BBMP
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Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for strength of Concrete C1.5)	Date: 27.05.2021

Name of Project: Improvements to Roads and Drains at Basavalingappa Badavane and Rajiv Gandhinagara and Chikkabettahalli in Ward No-03 of Yelahanka Satellite Town Sub Division.

Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Yelahanka Zone, Bengaluru.
Contractor	Sri J. GIRISH
Customer Reference	BBMP/EE/YNK.D.EPMT-05/W.O/213/2020-21 Dated:12-01-2020
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Date of Reciept	29.04.2021
Sample Type	C.C Road
Sample Type/Size	150x150x150 mm
Sample Grade/ Age	M30/ 28 Days Compressive Strength
Date of Test	27.05.2021

Sl No.	Identification Mark	Grade of Concrete	Date of Casting	Date of Testing	Dimension of Specification	Cross sectional area	Weight of the sample	Failure Load	Compressive Strength	Average Compressive Strength
					mm	Sq.mm	kg	KN	N/mm^2	N/mm^2
1	C.C Road	M30	29.04.2021	27.05.2021	150x150x150	22500	8.95	671.59	29.8	30.05
2	C.C Road	M30	29.04.2021	27.05.2021	150x150x150	22500	9.10	675.23	30.0	
3	C.C Road	M30	29.04.2021	27.05.2021	150x150x150	22500	9.16	681.46	30.3	

Remarks : Results found satisfactory

Consultant: Transheight Consultants Pvt. Ltd.	Client : BBMP
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